



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

Kawneer Company, Inc.
555 Guthridge Court
Norcross, Georgia 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "Trifab 450" Aluminum Storefront System with Entrance Door-N.I.

APPROVAL DOCUMENT: Drawing No. 1431, titled "Trifab 450 Non- Impact Store Front & Entrance Way System", sheets 1 through 11 of 11, prepared by W.W Schaefer Engineering & Consulting, P.A., dated 11/11/08 and last revised on Jan 28, 2009, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None. Approved Hurricane Protection devices complying w/FBC are required for installation of this system.

Limitations: 1. When Fixed panels vertical mullion A or B used with Door jamb mullion C or D, the lower design pressures of combination governs.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 07-0808.04 consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

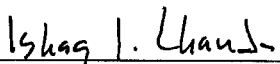


NOA No 08-1211.02
Expiration Date: April 20, 2012
Approval Date: March 18, 2009
Page 1

2/25/19

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (transferred from file # **07-0808.04**)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **1431**, titled "Trifab 450 Non- Impact Store Front & Entrance Way System", sheets 1 through 11 of 11, prepared by W.W Schaefer Engineering & Consulting, P.A., dated 11/11/08 and last revised on Jan 28, 2009, signed and sealed by Warren W. Schaefer, P.E.
- B. TESTS** (transferred from file # **07-0808.04**)
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Water Resistance Test, per FBC, TAS 202-94
3) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
Along with installation diagram of an aluminum storefront system, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0049-1117-04**, dated 12/03/04-03/04/05, signed and sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS** (transferred from file # **07-0808.04**)
1. Anchor verification calculations dated Sep. 07, 2005 and last revised on Feb 07, 2006, prepared, signed and sealed by Warren W. Schaefer, P.E.,
 2. Statement letter of anchor compliance to FBC 2007 dated April 15, 2008, prepared, signed and sealed by Warren W. Schaefer, P.E.,
 3. Glazing complies with ASTM E-1300-02 and ASTM E-1300-04
- D. QUALITY ASSURANCE BY:**
1. Miami-Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. None
- F. STATEMENTS**
1. Statement letter of conformance to FBC-2007, dated 04-15-2008, prepared, signed and sealed by Warren W. Schaefer, P. E.
 2. Statement letters of conformance to FBC 2004 and "No financial interest", both dated 09/07/05, signed and sealed by Warren W. Schaefer, P.E.
 3. Statement of compliance, issued as part of the above referenced test report issued by Hurricane Testing Laboratory.
- G. OTHER**
1. This NOA revises NOA # **07-0808.04**, expiring on April 20, 2012.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 08-1211.02
Expiration Date: April 20, 2012
Approval Date: March 18, 2009

GENERAL NOTES:

1. THESE STORE FRONT SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, FORCED ENTRY & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOL TAS-202 FOR NON-IMPACT STORE FRONTS.
5. THESE STORE FRONT SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THESE STORE FRONT SYSTEMS ARE NON-IMPACT RATED & MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
7. ALL ANCHORS SECURING STORE FRONT FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

FRAME ANCHOR REQUIREMENTS TABLE

FRAME & SILL ANCHORS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 12 SMS SCREW	1 3/8"	3/4"
MIN. 16 GA. 50 KSI METAL STUD	1/4-20 SELF TAPPING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	1/4-20 SELF TAPPING SCREW OR 1/4" THRU-BOLT	FULL	1/2"
C-90 CMU/3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

CORNER & FRAME END CONSTRUCTION:

FRAME HEAD CORNER: HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 4 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 2 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE SILL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

HORIZONTAL FRAME MULLION END: MULLION IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 2 NO. 12 X 1 1/8" PPHFT TYPE AB FASTENERS THROUGH THE SIDE MEMBER INTO THE MULLION MEMBER SCREW SPLINES & SEALED WITH SILICONE.

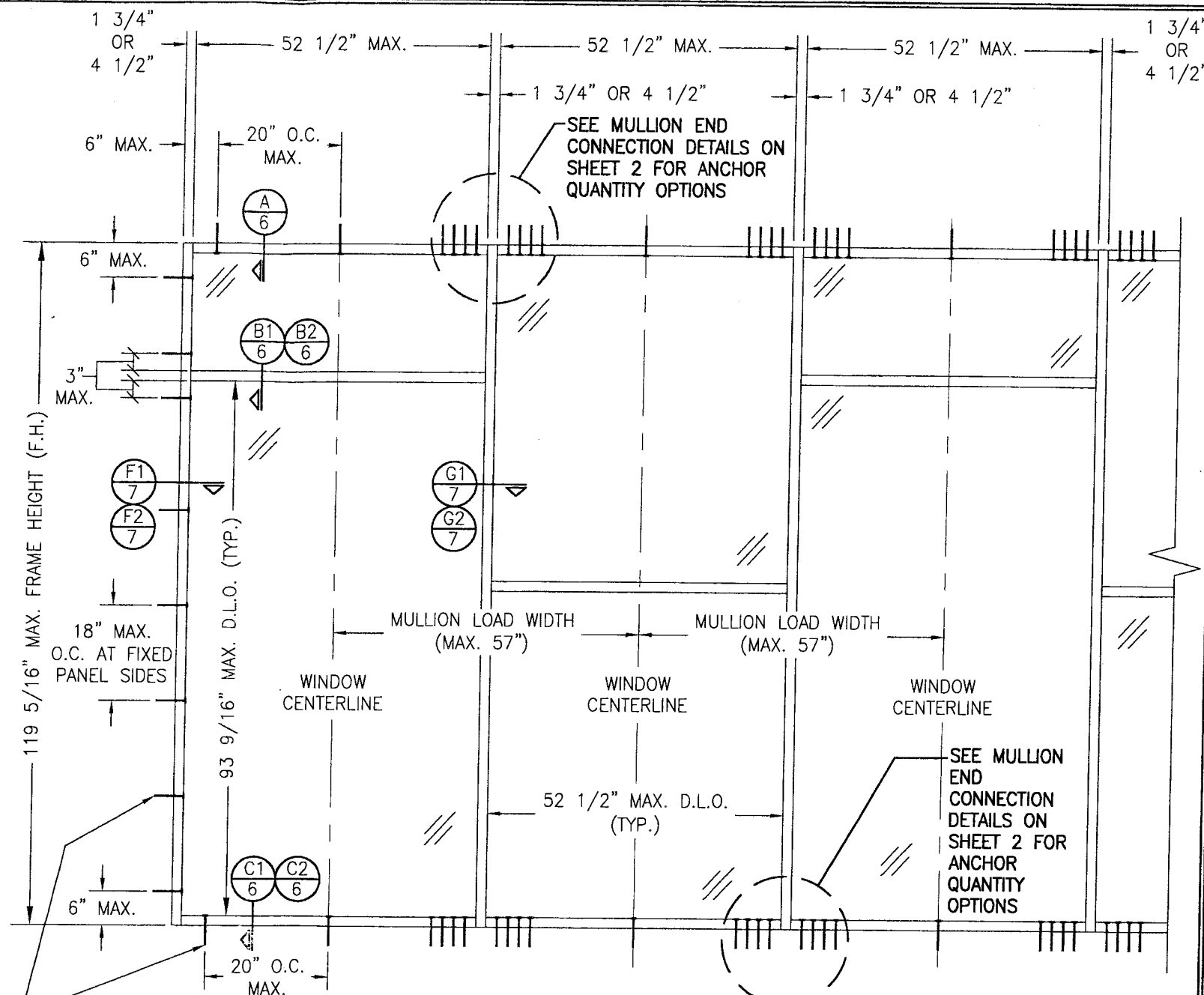
DOOR TRANSOM MULLION END: SEE SECTIONS E1/6, E2/7 & E3/7.

DOOR HEAD FRAME CORNERS: SEE SECTIONS L1/8, L2/8 & L3/8.

DOOR SILL CORNER: THRESHOLD WAS SQUARE CUT, BUTTED TO THE SIDE, SECURED TO THE SIDE MEMBER USING A PIVOT ASSEMBLY OR STEEL CLIP & SEALED WITH SILICONE.

DOOR PANEL TOP RAIL CORNERS: AT EACH TOP CORNER, THE TOP RAIL END IS SQUARE CUT, BUTTED, AND ATTACHED TO THE VERTICAL STILE BY MEANS OF A 1.094" LONG WELD CLIP (KAWNEER PART #200-450, #200-452, OR #200-453). EACH WELD CLIP IS ATTACHED TO THE VERTICAL STILE USING, TWO(2) 1/4-20 X 3/4" PHMS THAT PASSED THROUGH THE DOOR STILE AND ARE THREADED INTO 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED USING ONE(1), 1/2" DIAMETER PLUG WELD AND ONE(1), 1/4" X 1 1/8" FILLET WELD THAT ARE APPLIED TO BOTH WEBS OF THE TOP RAIL.

DOOR PANEL BOTTOM RAIL CORNERS: AT EACH BOTTOM CORNER, THE BOTTOM RAIL END IS SQUARE CUT, BUTTED, AND ATTACHED TO THE VERTICAL STILE BY MEANS OF A 1.094" LONG WELD CLIP (KAWNEER PART #200-451 OR #200-459). EACH WELD CLIP IS ATTACHED TO THE VERTICAL STILE USING, TWO(2) 1/4-20 X 3/4" PHMS THAT PASSED THROUGH THE DOOR STILE AND ARE THREADED INTO 3/16" THICK STEEL NUT PLATES. THE INTERSECTION OF EACH CORNER JOINT WAS WELDED USING ONE(1), 1/2" DIAMETER PLUG WELD AND ONE(1), 1/4" X 1 1/8" FILLET WELD THAT ARE APPLIED TO BOTH WEBS OF THE TOP RAIL.



**EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY**

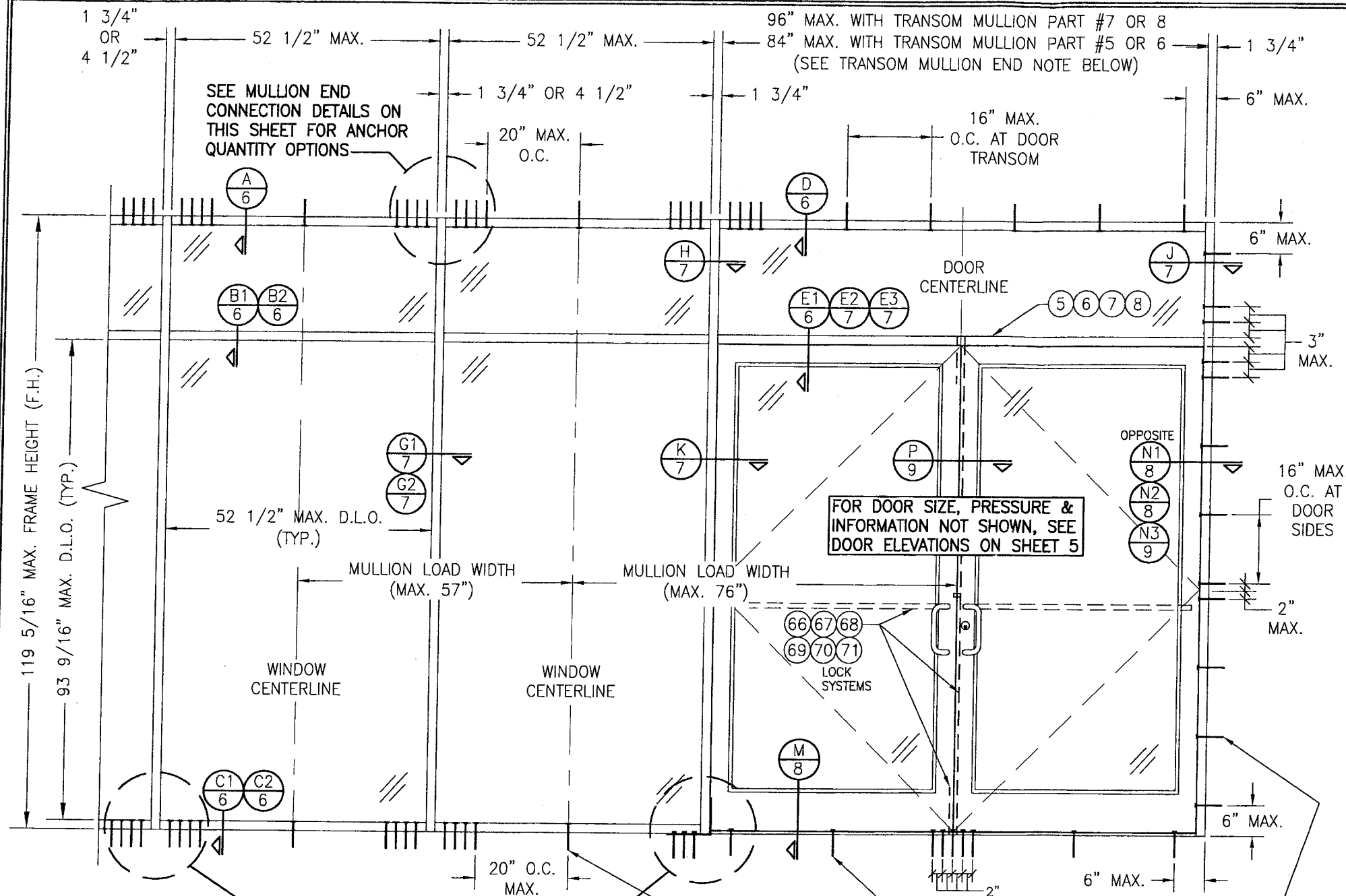
SCALE: 1/2"=1'-0"

HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLES ON SHEET 5

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-1211.02
Expiration Date APR 20, 2012
By: [Signature]
Miami Dade Product Control
Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 08/06/05	
NO.	REVISION DESCRIPTION	DATE	BY
1	UPDATE TO PRESENT FBC & EDIT	11/11/08	W.W.S.
2	LOCK CALL-OUTS		
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JAN 28 2009		DRAWING NO. 1431	
		SHEET NO. 1 OF 11	



SEE MULLION END CONNECTION DETAILS ON THIS SHEET FOR ANCHOR QUANTITY OPTIONS

FOR DOOR SIZE, PRESSURE & INFORMATION NOT SHOWN, SEE DOOR ELEVATIONS ON SHEET 5

SEE MULLION END CONNECTION DETAILS ON THIS SHEET FOR ANCHOR QUANTITY OPTIONS

TYP. FRAME ANCHOR WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

(NOTE: DOOR SILL ANCHORS INCLUDE 9 TOTAL AT DOUBLE DOORS & 3 TOTAL AT SINGLE DOORS AS SHOWN.)

TRANSOM MULLION NOTE:
WHEN TRANSOM MULLION PART #5 OR 6 IS USED, MULLION SPAN IS LIMITED TO MAX. 84". WHEN TRANSOM MULLION PART #7 OR 8 IS USED, MULLION SPAN MAY BE UP TO MAX. 96". SEE PARTS DRAWINGS FOR MULLION PARTS.

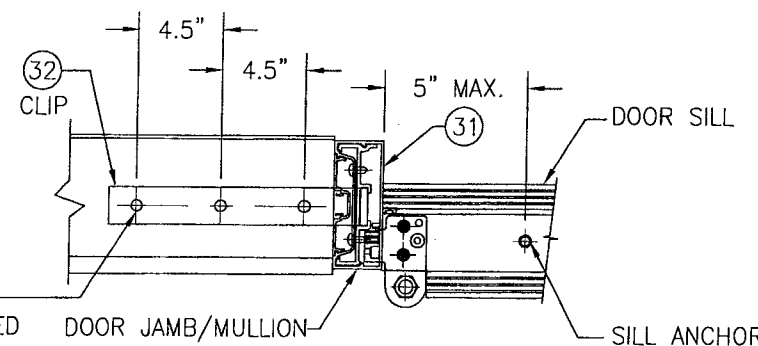
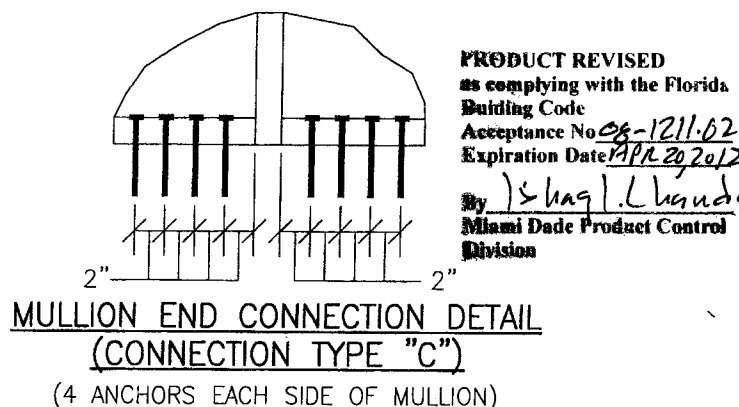
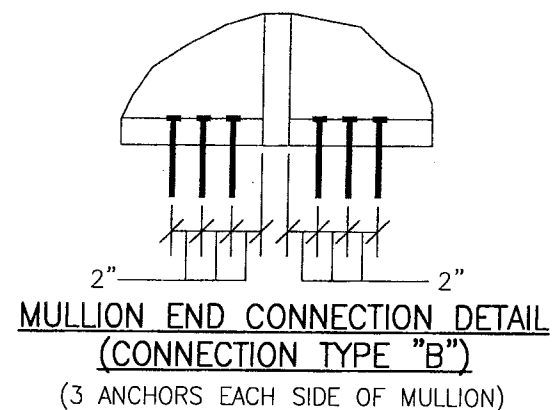
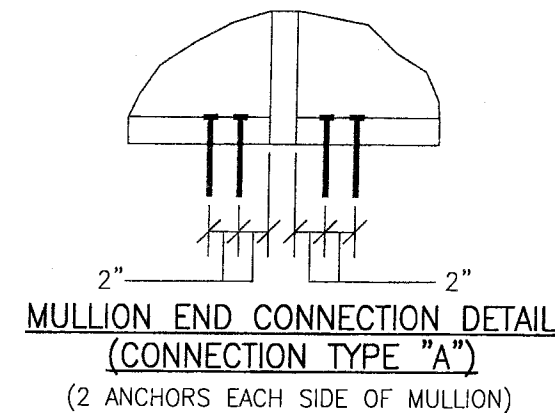
EXTERIOR ELEVATION STORE FRONT ASSEMBLY WITH DOORS & TRANSOM

SCALE: 1/2"=1'-0"

NOTE: 1) FIXED PANELS MAY BE PLACED ON ONE OR BOTH SIDES OF DOORS.
2) DOORS MAY BE SINGLE OR DOUBLE DOORS.

ALLOWABLE DESIGN PRESSURE
SEE LOAD TABLES ON SHEET 5

(*) THE DOORS IN THIS STORE FRONT SYSTEM ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

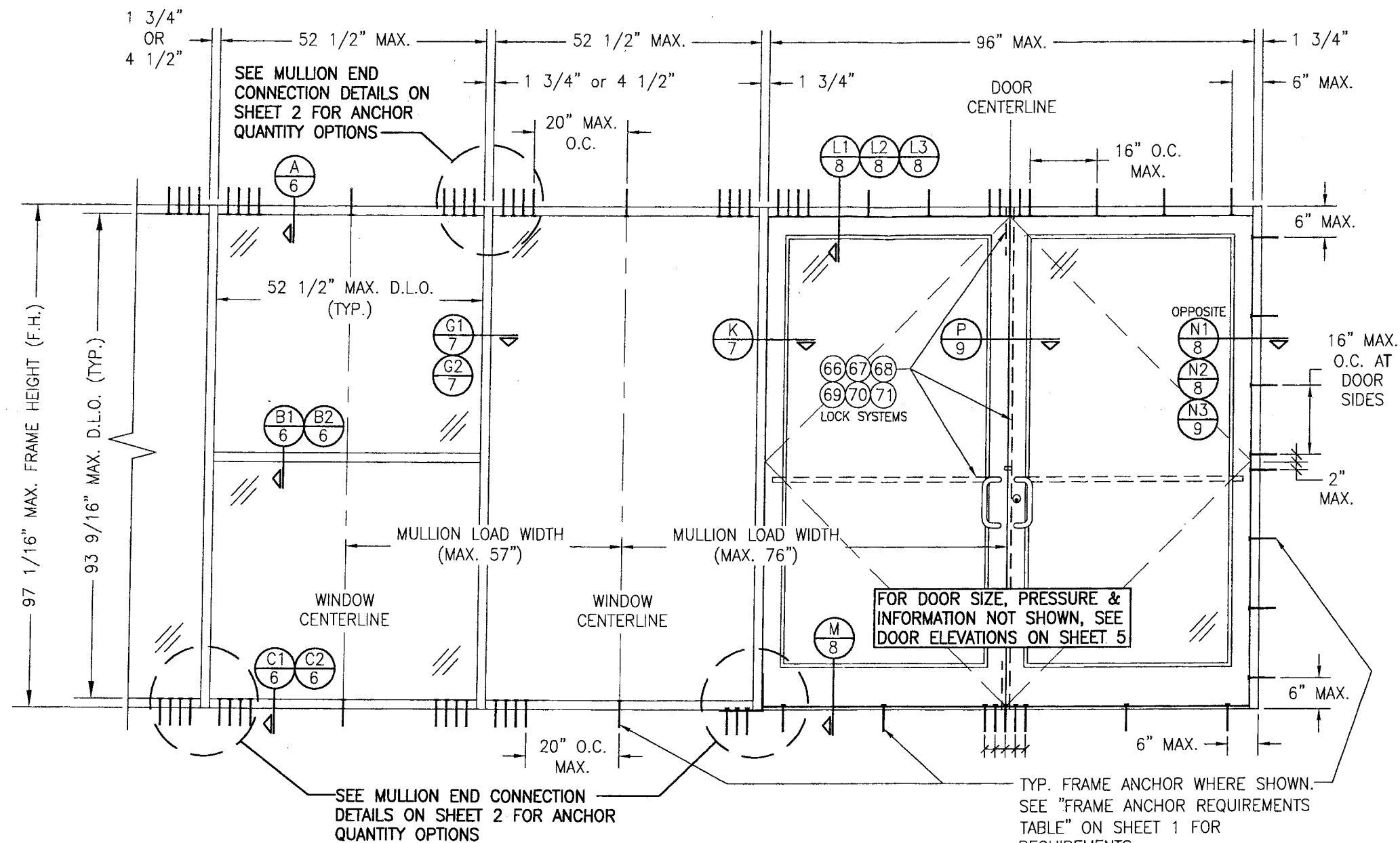


THREE(3) 3/8" WEDGE/SLEEVE ANCHORS WITH MIN. 2 1/2" EMBED AND 2 1/2" EDGE DISTANCE (GALVANIZED STEEL OR S.S. RAMSET/RED HEAD DYNABOLT, HILTI KWIK-BOLT II OR POWERS RAWL POWER BOLT)

MULLION END CONNECTION DETAIL (AT DOOR SIDE JAMB MULLION)
NOTE: THIS MULLION END CONNECTION IS EQUIVALENT IN PRESSURE CAPACITY TO CONNECTION TYPE "C".

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 08-1211-02
Expiration Date APR 2012
By: *Shag L. L. L.*
Miami Dade Product Control Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 09/05/05	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE		MANUFACTURER	
TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM		KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS		CONSULTANTS	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION		CERTIFICATION	
JAN 28 2009		JAN 28 2009	
DRAWING NO. 1431		REV. A	
SHEET NO. 2		OF 11	



EXTERIOR ELEVATION
STORE FRONT ASSEMBLY WITH DOORS & NO TRANSOM

SCALE: 1/2"=1'-0"

NOTE: 1) FIXED PANELS MAY BE PLACED ON ONE OR BOTH SIDES OF DOORS.
 2) DOORS MAY BE SINGLE OR DOUBLE DOORS.

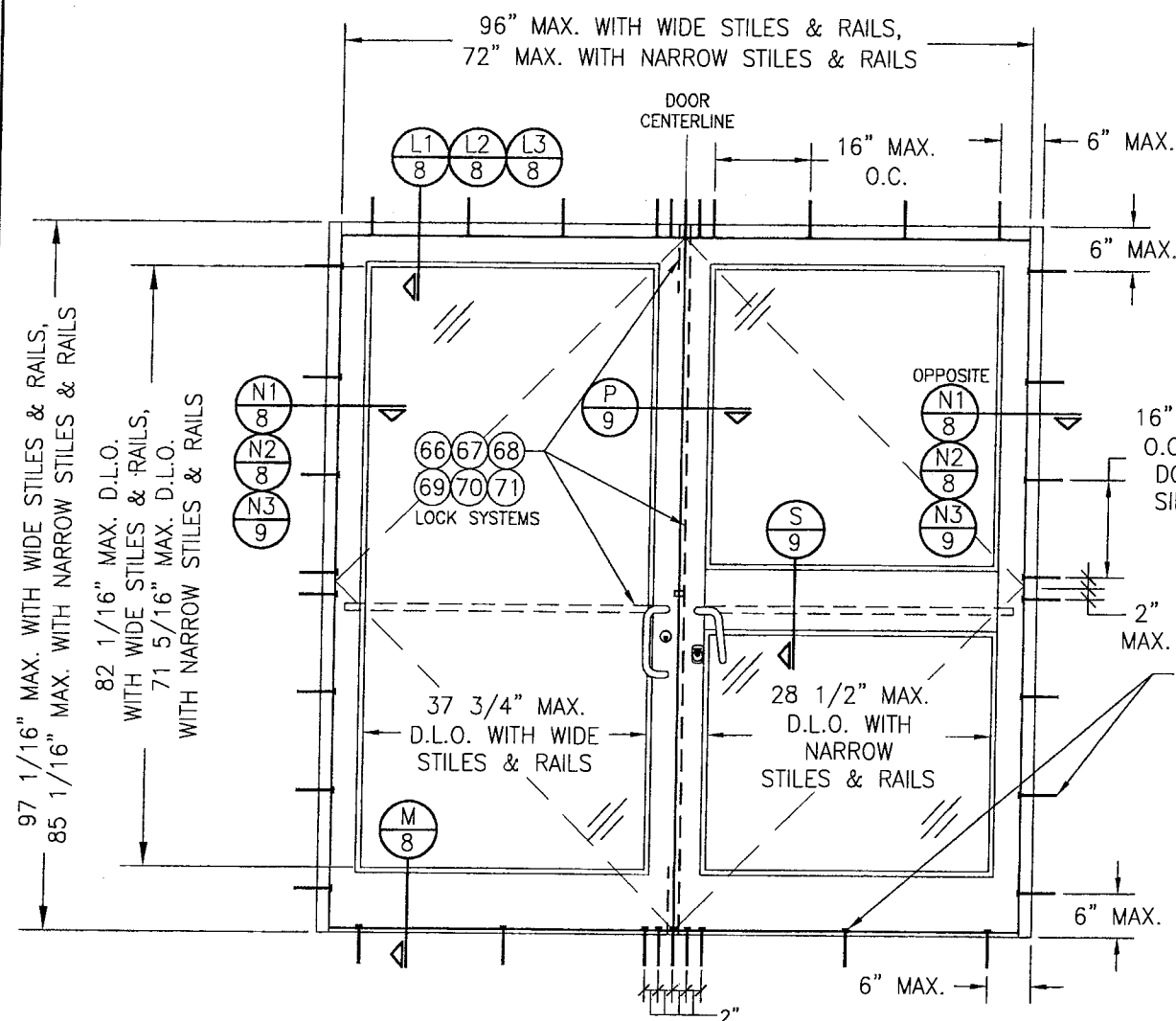
ALLOWABLE DESIGN PRESSURE
 SEE LOAD TABLES ON SHEET 5

(*) THE DOORS IN THIS STORE FRONT SYSTEM ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF THE CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.

TYP. FRAME ANCHOR WHERE SHOWN.
 SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.
 (NOTE: DOOR SILL ANCHORS INCLUDE 9 TOTAL AT DOUBLE DOORS & 3 TOTAL AT SINGLE DOORS AS SHOWN.)

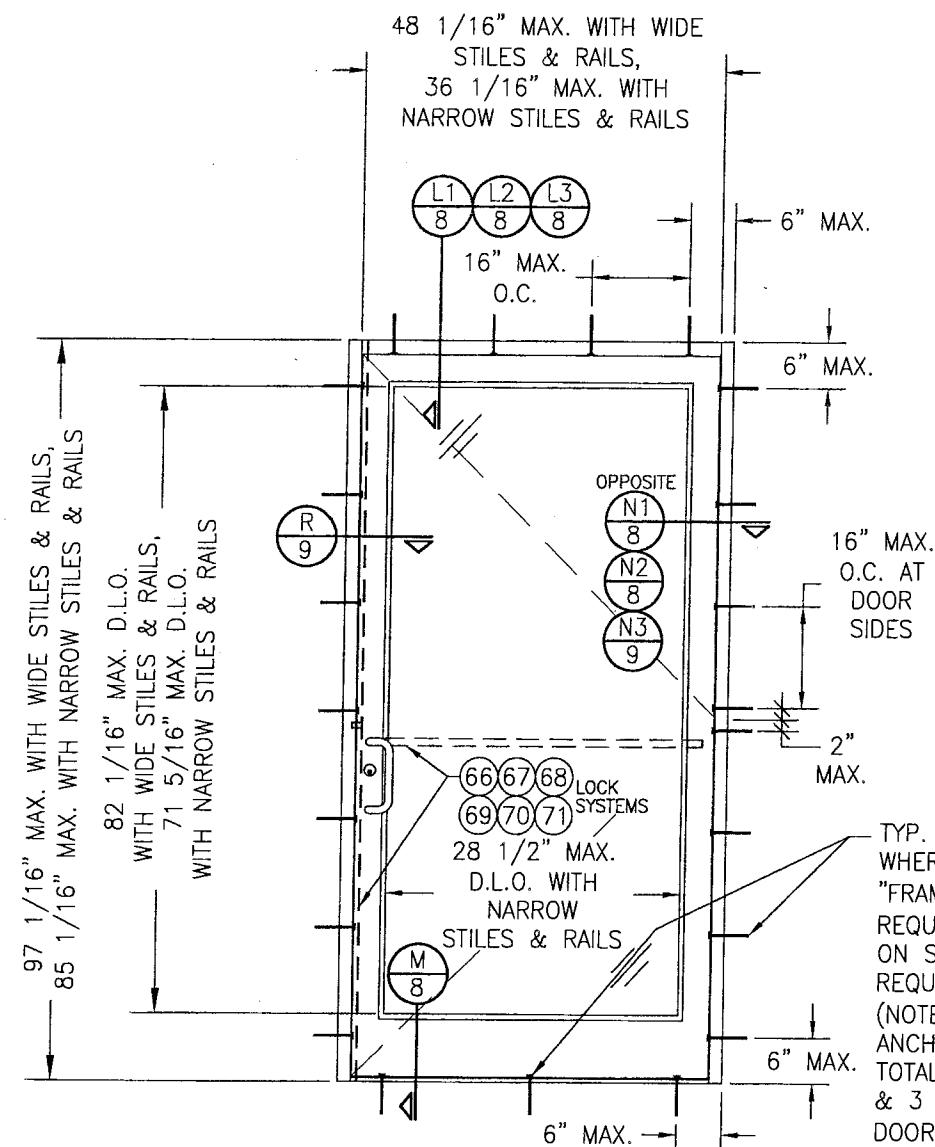
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 as complying with the Florida
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 Acceptance No. 08-1211-02
 Expiration Date APR 29 2012
 By *Ishag I. Llanza*
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 09/06/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER KAWNEER COMPANY, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JAN 28 2009		DRAWING NO. 1431 SHEET NO. 3 OF 11	



EXTERIOR ELEVATION
DOUBLE DOOR ASSEMBLY
SCALE: 1/2"=1'-0"

ALLOWABLE PRESSURE = +/-65 PSF



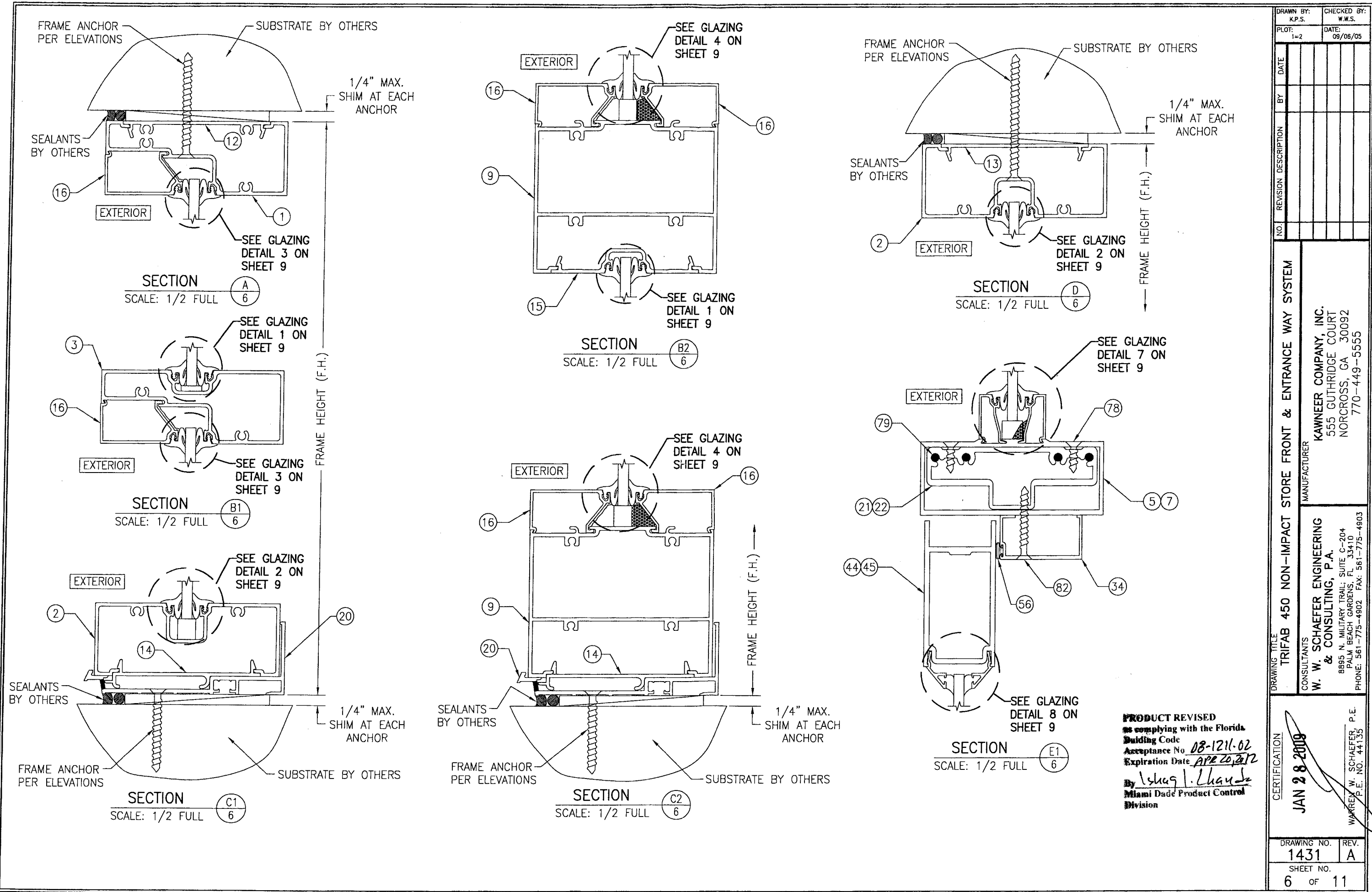
EXTERIOR ELEVATION
SINGLE DOOR ASSEMBLY
SCALE: 1/2"=1'-0"

ALLOWABLE PRESSURE = +/-65 PSF

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as complying with the Florida
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By Shag J. Lhant
Miami Dade Product Control
Division

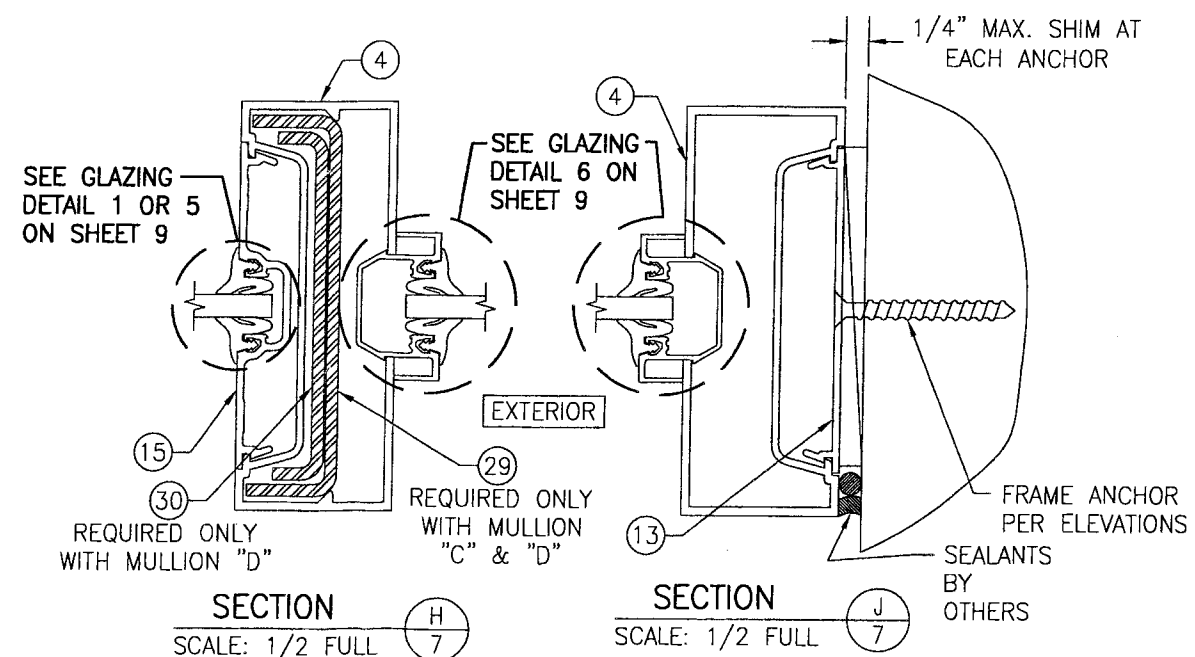
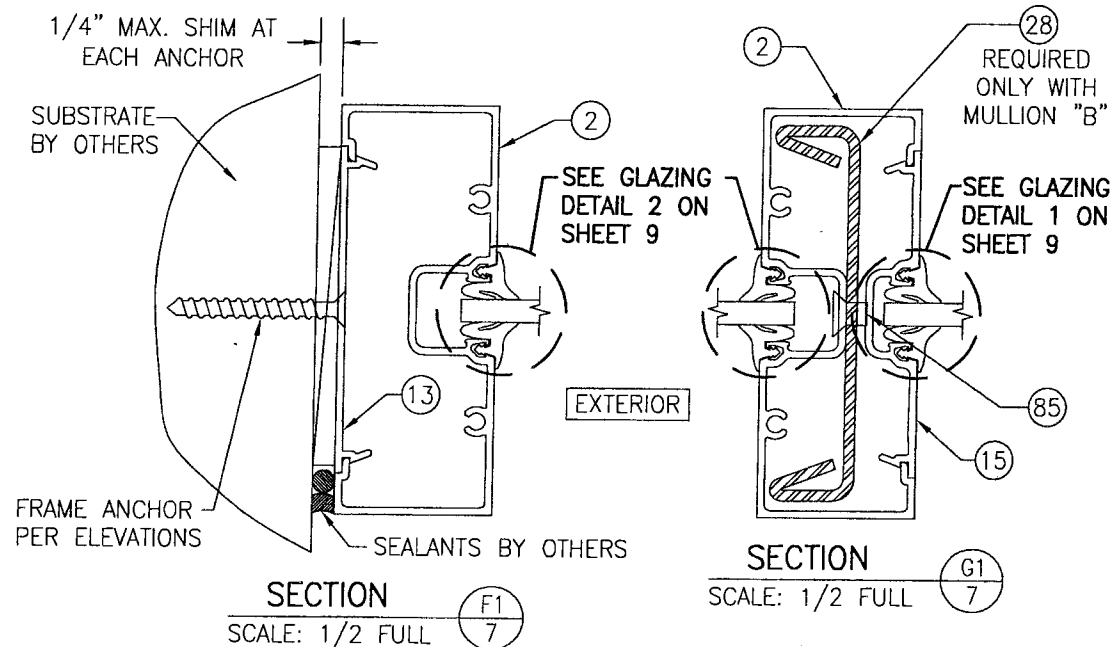
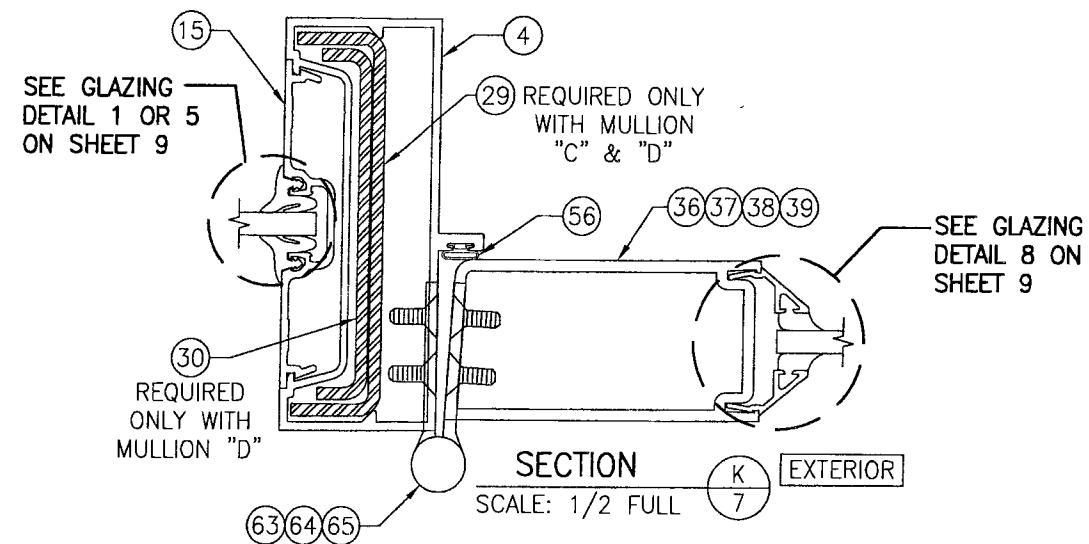
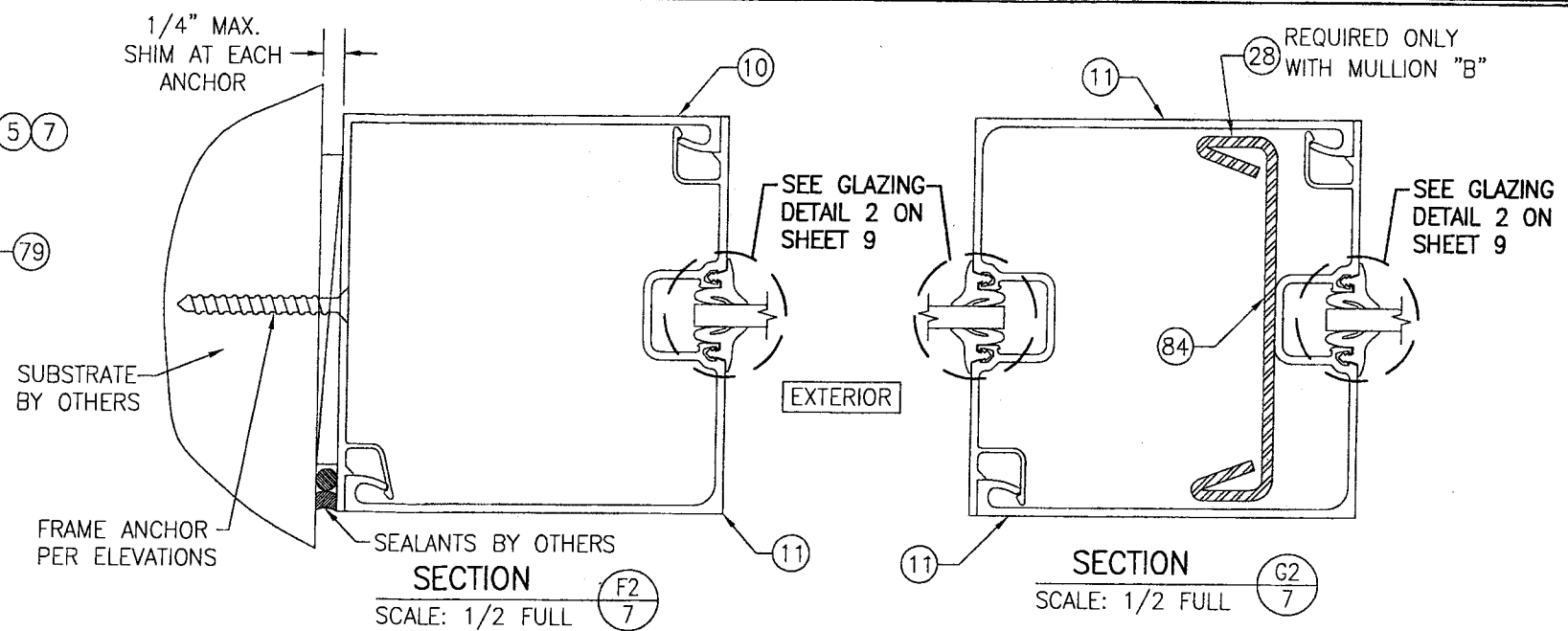
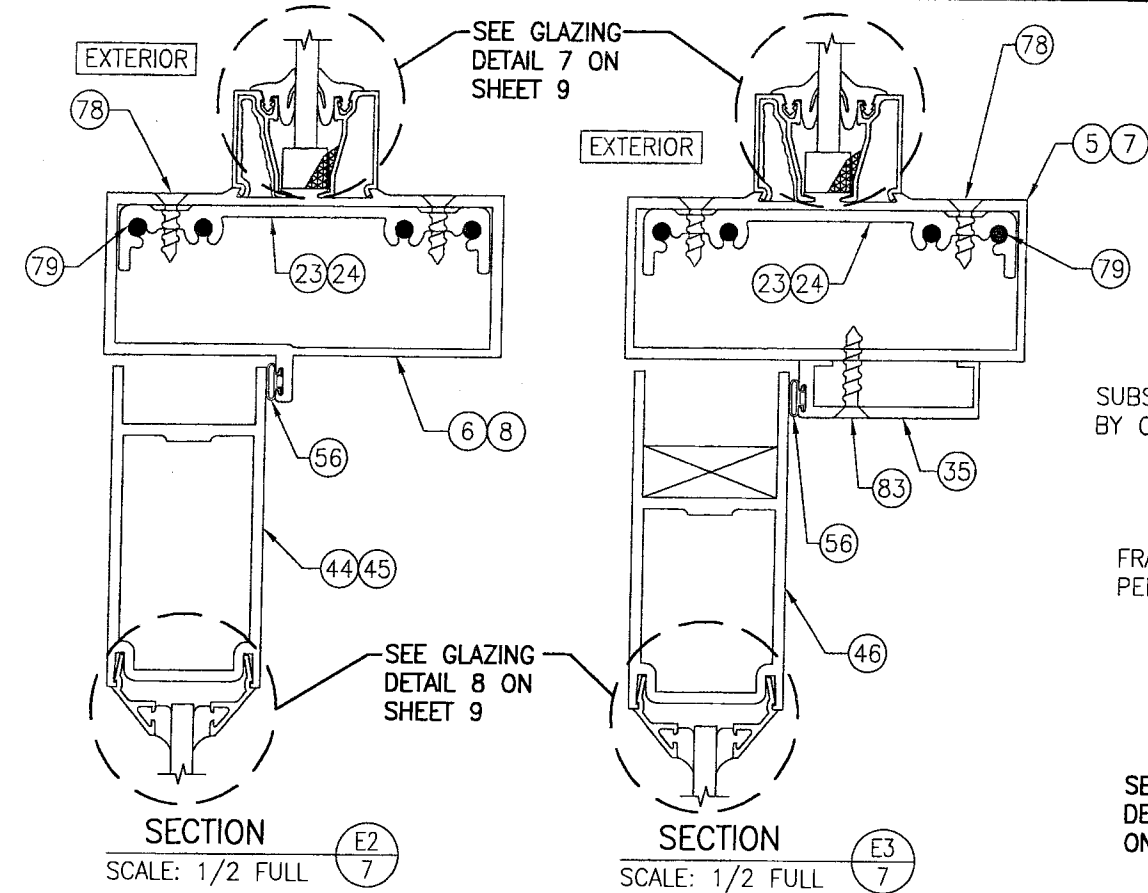
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PLOT: 1=24		DATE: 09/06/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8805 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JAN 28 2009		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1431		REV. A	
SHEET NO. 4 OF 11			



DRAWN BY: K.P.S.		CHECKED BY: W.M.S.	
PLOT: 1=2		DATE: 09/06/05	
NO.	REVISION DESCRIPTION	BY	DATE
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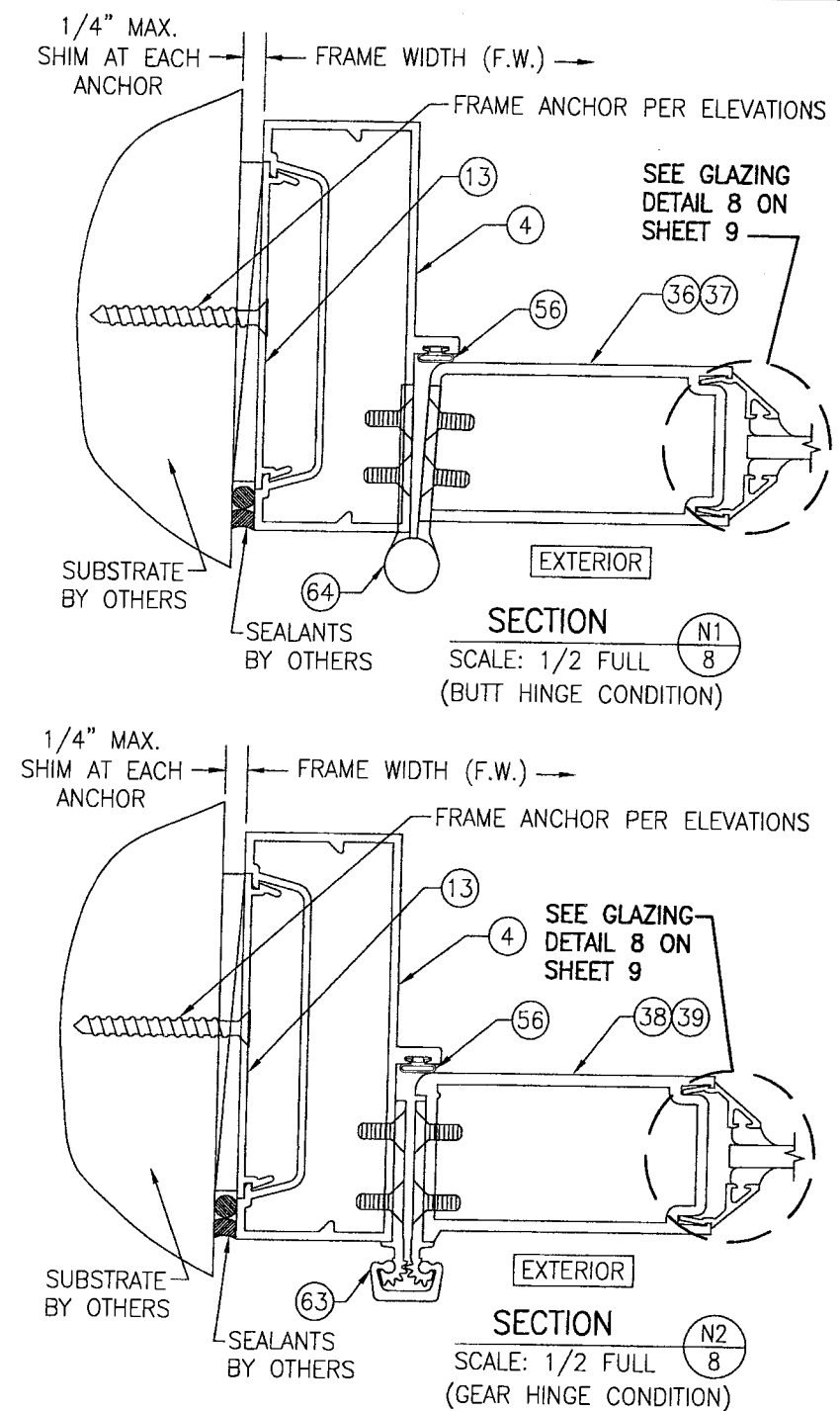
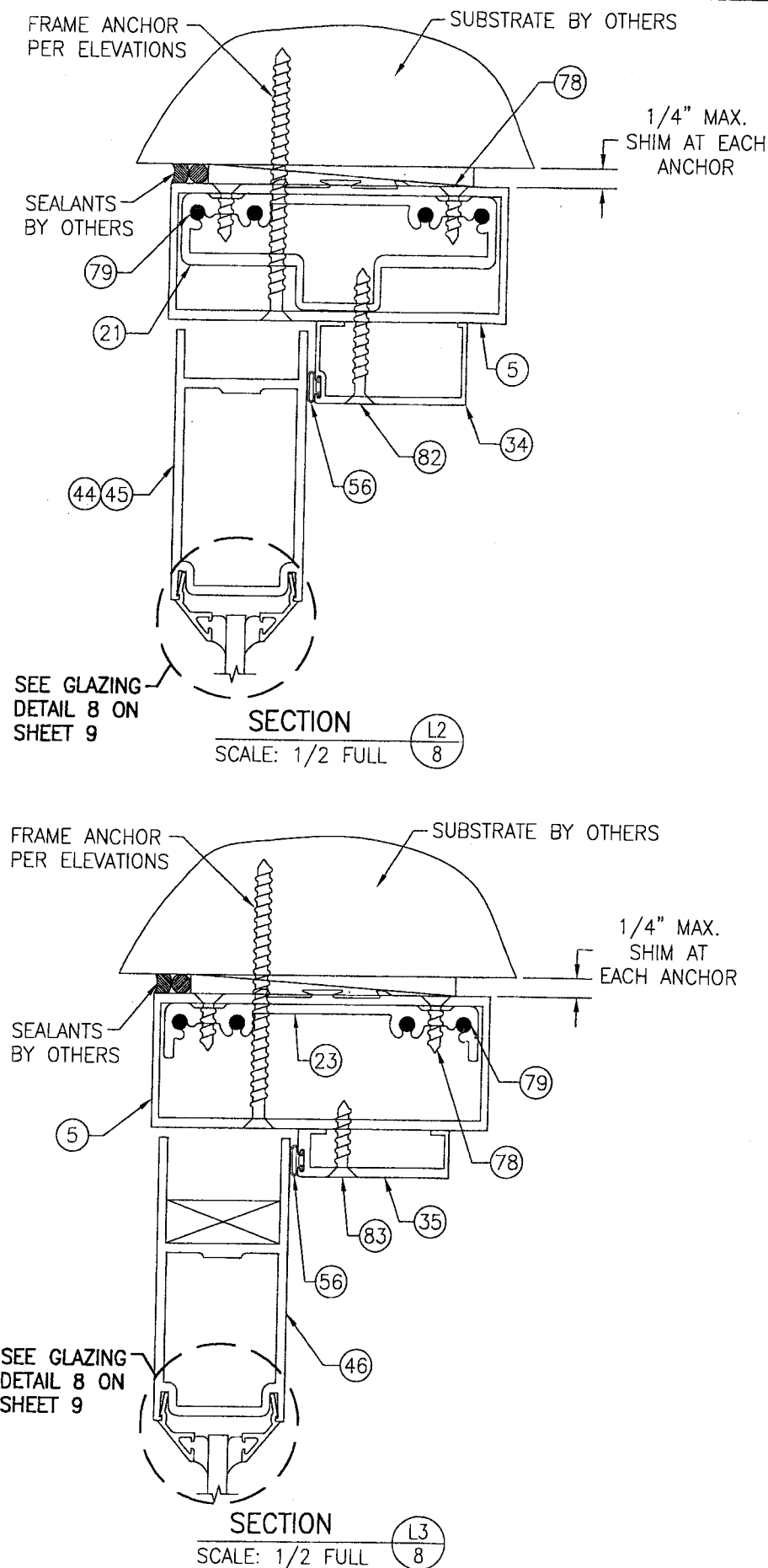
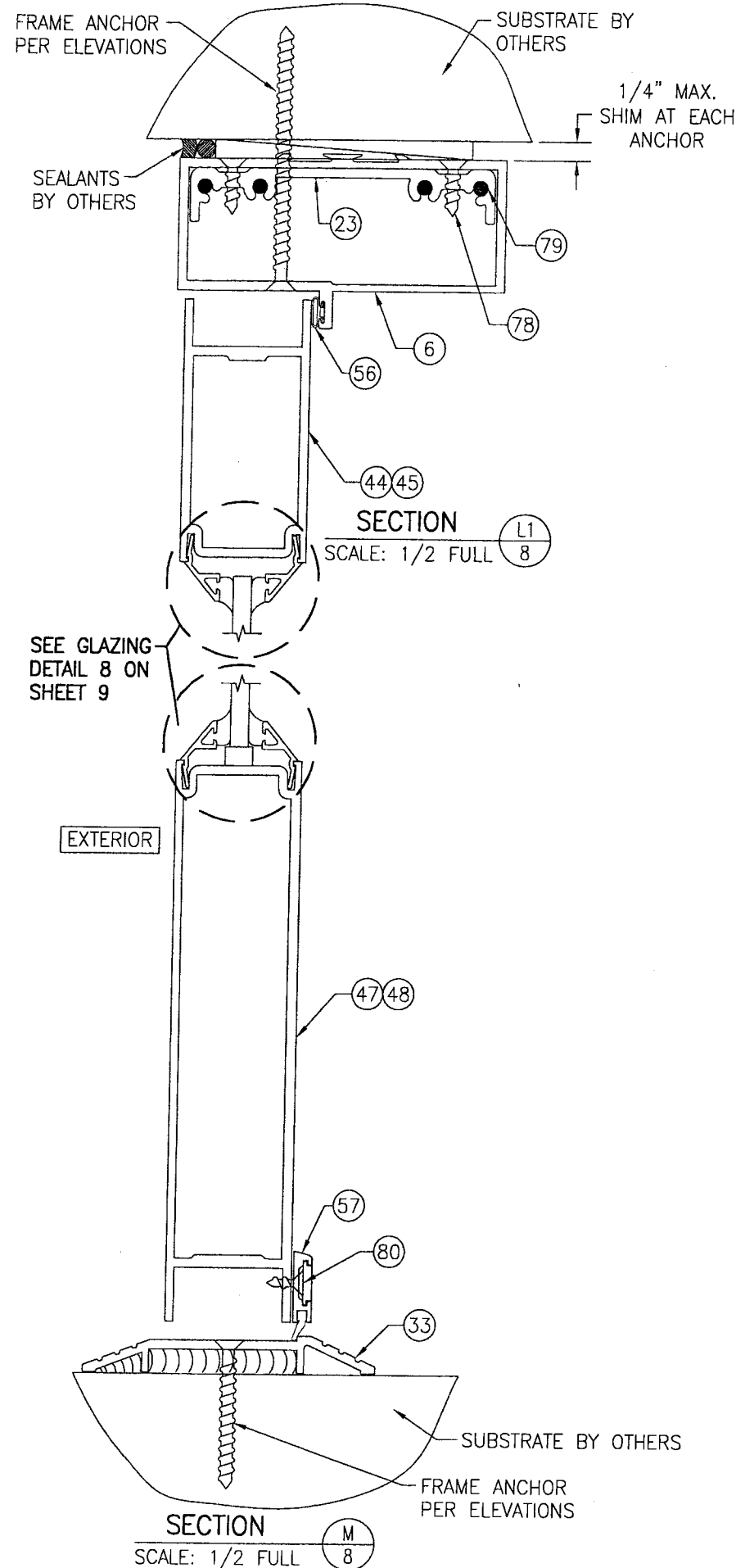
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 08-1211-02
 Expiration Date APR 20, 2012
 By Ishag I. Chaudhry
 Miami Dade Product Control
 Division

DRAWING TITLE	
TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM	
CONSULTANTS	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER	
KAWNEER COMPANY, INC.	
555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION	
JAN 28 2009	
DRAWING NO. 1431	
REV. A	
SHEET NO. 6 OF 11	



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 08-1211.02
Expiration Date APR 20, 2012
By Shagil Chanda
Miami Dade Product Control
Division

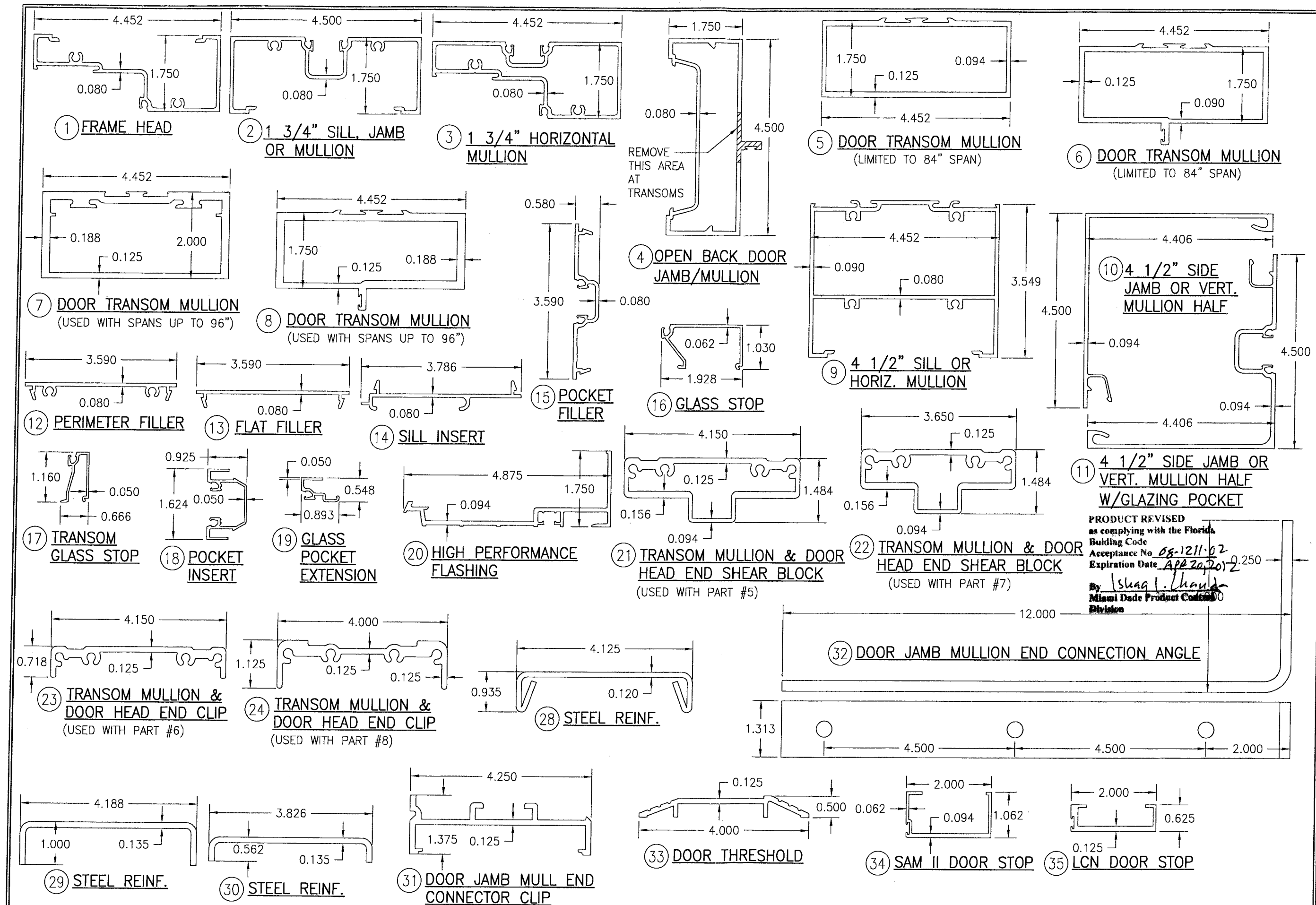
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 08/06/05	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JAN 28 2009 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1431		REV. A	
SHEET NO. 7 OF 11			



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-1211-02
 Expiration Date APR 20, 2012
 By Ishag J. Chande
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/06/05	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: TRIFAB 450 NON-IMPACT STORE FRONT & ENTRANCE WAY SYSTEM			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: KAWNEER COMPANY, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: JAN 28 2009			
DRAWING NO. 1431		REV. A	
SHEET NO. 8		OF 11	

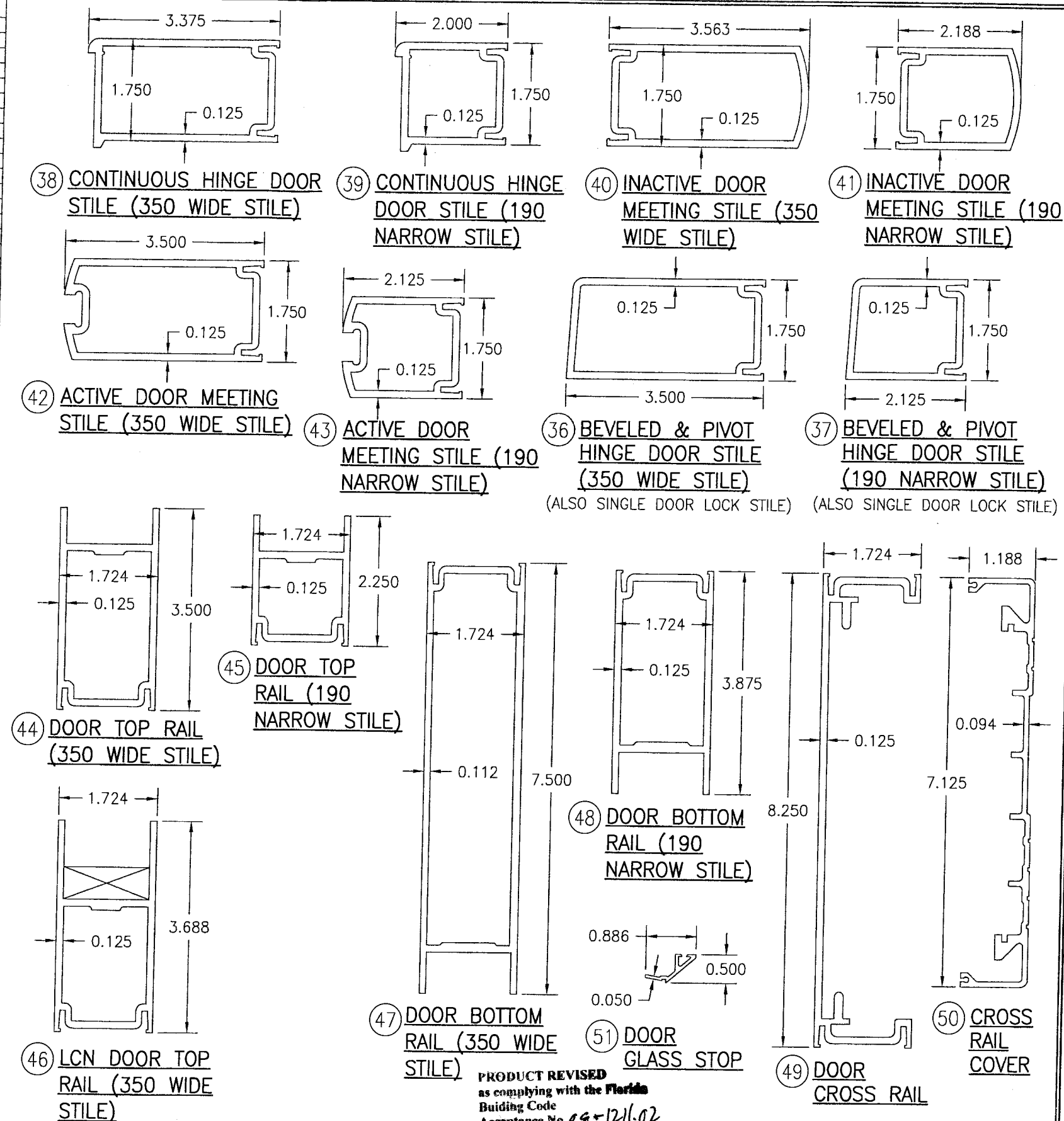
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DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/06/05	
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CONSULTANTS		KAWNEER COMPANY, INC.	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		555 GUTHRIE COURT	
8895 N. MILITARY TRAIL, SUITE C-204		NORCROSS, GA 30092	
PHONE: 561-775-4902		FAX: 561-775-4903	
MANUFACTURER		KAWNEER COMPANY, INC.	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		555 GUTHRIE COURT	
8895 N. MILITARY TRAIL, SUITE C-204		NORCROSS, GA 30092	
PHONE: 561-775-4902		FAX: 561-775-4903	
CERTIFICATION		JAN 28 2009	
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SHEET NO.		10 OF 11	

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	450-CG-003	FRAME HEAD	6063-T6 ALUMINUM
2	450-CG-001	1 3/4" SILL JAMB OR MULLION	6063-T6 ALUMINUM
3	450-CG-011	1 3/4" HORIZONTAL MULLION	6063-T6 ALUMINUM
4	575-053	OPEN BACK DOOR JAMB/MULLION	6063-T6 ALUMINUM
5	450-079	DOOR TRANSOM & TRANSOM MULLION	6063-T6 ALUMINUM (MULLION LIMITED TO 84" SPAN)
6	450-502	DOOR TRANSOM & TRANSOM MULLION	6063-T6 ALUMINUM (MULLION LIMITED TO 84" SPAN)
7	118-080	DOOR TRANSOM MULLION	6063-T6 ALUMINUM
8	450-075	DOOR TRANSOM MULLION	6063-T6 ALUMINUM
9	450-027	4 1/2" SILL OR HORIZ. MULLION	6063-T6 ALUMINUM
10	450-017	4 1/2" SIDE JAMB OR VERT. MULL HALF	6063-T6 ALUMINUM
11	450-CG-015	4 1/2" SIDE JAMB OR VERT. MULL HALF	6063-T6 ALUMINUM
12	451-CG-163	PERIMETER FILLER	6063-T6 ALUMINUM
13	450-126	FLAT FILLER SHIM SUPPORT	6063-T6 ALUMINUM
14	451-HP-126	SILL INSERT	6063-T6 ALUMINUM
15	450-CG-002	POCKET FILLER	6063-T6 ALUMINUM
16	450-CG-004	GLASS STOP	6063-T6 ALUMINUM
17	450-022	TRANSOM GLASS STOP	6063-T6 ALUMINUM
18	450-033	POCKET INSERT	6063-T6 ALUMINUM
19	575-056	GLASS POCKET EXTENSION	6063-T6 ALUMINUM
20	451-HP-037	HIGH PERFORMANCE FLASHING	6063-T6 ALUMINUM
21	450-548	TRANSOM MULL & DOOR HEAD END SHEAR BLOCK	6063-T6 ALUMINUM (USED WITH PART #5)
22	400-140/141	TRANSOM MULL & DOOR HEAD END SHEAR BLOCK	6063-T6 ALUMINUM (USED WITH PART #7)
23	450-506	TRANSOM MULL & DOOR HEAD END CLIP	6063-T6 ALUMINUM (USED WITH PART #6)
24	118-049	TRANSOM MULL & DOOR HEAD END CLIP	6063-T6 ALUMINUM (USED WITH PART #8)
28	450-110	FIXED PANEL VERT. MULL STEEL REINFORCEMENT	50 KSI STEEL
29	575-300	DOOR JAMB MULL STEEL REINFORCEMENT	50 KSI STEEL
30	575-301	DOOR JAMB MULL STEEL REINFORCEMENT	50 KSI STEEL
31	575-298	DOOR JAMB MULL END CONNECTOR CLIP	6063-T6 ALUMINUM
32	575-299	DOOR JAMB MULL BASE END CONNECTION ANGLE	50 KSI STEEL
33	069-139	DOOR THRESHOLD	6063-T6 ALUMINUM
34	041-045	SAM II DOOR STOP	6063-T6 ALUMINUM
35	069-214	LCN DOOR STOP	6063-T6 ALUMINUM
36	200-005	BEVELED DOOR STILE "350"	6063-T6 ALUMINUM
37	200-002	BEVELED DOOR STILE "190"	6063-T6 ALUMINUM
38	200-012	CONT. HINGE DOOR STILE "350"	6063-T6 ALUMINUM
39	200-011	CONT. HINGE DOOR STILE "190"	6063-T6 ALUMINUM
40	200-007	INACTIVE DOOR MEETING STILE "350"	6063-T6 ALUMINUM
41	200-004	INACTIVE DOOR MEETING STILE "190"	6063-T6 ALUMINUM
42	200-006	ACTIVE DOOR MEETING STILE "350"	6063-T6 ALUMINUM
43	200-003	ACTIVE DOOR MEETING STILE "190"	6063-T6 ALUMINUM
44	200-023	DOOR TOP RAIL "350"	6063-T6 ALUMINUM
45	200-020	DOOR TOP RAIL "190"	6063-T6 ALUMINUM
46	200-024	LCN DOOR TOP RAIL "350"	6063-T6 ALUMINUM
47	200-034	DOOR BOTTOM RAIL "350"	6063-T6 ALUMINUM
48	200-030	DOOR BOTTOM RAIL "190"	6063-T6 ALUMINUM
49	233-013	DOOR CROSS RAIL	6063-T6 ALUMINUM
50	033-105	CROSS RAIL COVER	6063-T6 ALUMINUM
51	200-041	DOOR GLASS STOP	6063-T6 ALUMINUM
SEALS AND SEALANTS			
56	027-078	BULB WEATHERSTRIPPING	ALCRYN
57	200-795	DOOR BOTTOM SWEEP ASSEMBLY	VARIED
58	200-496	ASTRAGAL WEATHERSTRIPPING	VARIED
59	027-074	PUSH-ON GASKET	EPDM
60	027-563	DOOR WEATHERING	EPDM
HARDWARE			
63	050-821	CONTINUOUS GEAR HINGE	BY HAGER/ROTON
64	037-232	BUTT HINGE (3 PER PANEL)	BY HAGER
65	050-322	TOP OFFSET PIVOT	BY KAWNEER
	050-331	INTERMEDIATE OFFSET PIVOT	BY KAWNEER
65	050-326/327	RH/LH BOTTOM OFFSET PIVOT	BY KAWNEER
66	-	MS 1850 3-POINT LOCK	BY ADAMS-RITE (NOT APPLICABLE WITH 190 DOORS)
67	050-079	FLUSH BOLT LOCK	BY KAWNEER
68	-	CONSEALED ROD EXIT DEVICE	DOROMATIC 1690
69	-	CONSEALED ROD EXIT DEVICE	PANELINE CR90
70	-	CONSEALED ROD EXIT DEVICE	JACKSON 2086
71	-	CONSEALED ROD EXIT DEVICE	KAWNEER 1686
72	-	OVERHEAD CONCEALED DOOR CLOSER	BY KAWNEER OR LCN
73	-	SURFACE DOOR CLOSER	BY NORTON
74	C09 OR CPN	PUSH/PULL DEVICE	BY KAWNEER
MISCELLANEOUS FASTENERS			
78	-	NO. 10 X 1 1/4" S.S. SCREW	2 PER CLIP
79	-	NO. 10 X 1 1/2" S.S. SCREW	4 PER CLIP
80	-	NO. 6 X 3/8" S.S. SCREW	7 PER DOOR SWEEP
81	-	NO. 6 X 3/4" SCREW	10 PER DOOR LEAF MAX.
82	-	NO. 10 X 1 5/8" S.S. SCREW	8 PER STOP
83	-	NO. 10 X 1" S.S. SCREW	5 PER STOP
84	-	1/4" X 5/8" S.S. SCREW	6" FROM ENDS & 12" MAX. O.C.
85	-	NO 10-24 X 3/8" S.S. SCREW	1 AT CENTER



PRODUCT REVISED
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Acceptance No. *09-1211.02*
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By *Isaac J. Chayak*
Miami Dade Product Control
Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/06/05	
NO.	REVISION DESCRIPTION	DATE	BY
A1	CHANGED ITEM NUMBER 8 TO PART #450-075	07/18/07	W.W.S.
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WARREN A. SCHAEFER, P.E. P.E. NO. 44135		REV. A	
		SHEET NO. 11 OF 11	